

VELICAN, D.; VELICAN, C.

Some observations relative to the reticulo-adenoid tissue of respiratory
parenchyma. p. 973

COMUNICARILE. Bucuresti, Rumania. Vol. 8, no. 9, Sept. 1958

Monthly list of European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

VELICAN, Doina; VELICAN, C.

Biology of the process of sclerosis. XII. Changes of the pulmonary interstitial space after intratracheal instillation of hyaluronic acid. Stud cercet med intern 4 no.3:397-402
(LUNG DISEASES) (HYALURONIC ACID) (SCLEROSIS)

LUPU, N. Gh.; VELICAN, C.; GOCIUM, M.; VELICAN, Doina

Notes on acid mucopolysaccharides of the respiratory parenchyma
in certain extrapulmonary diseases. Probl. ter., Bucur. 10 no.1:
11-18 1959.

(MUCOPOLYSACCHARIDES, determination

acid, in resp. parenchyma in liver cirrhosis, myeloid
leukemia, abdom. neoplasms & other extrapulm. dis.)

(LIVER CIRRHOSIS, physiology

acid mucopolysaccharides in resp. parenchyma)

(LEUKEMIA, MYELOCYTIC, physiology

same)

(ABDOMEN, neoplasms

same)

(RESPIRATORY TRACT, physiology

acid mucopolysaccharides in parenchyma in liver cirrhosis,
myeloid leukemia, abdom. neoplasms & other extrapulm. dis.)

GROZEA, P.; MAINESCU, Speranta; VELICAN, Doina; SIGHETEA, Elena

Preliminary observations concerning the interrelations between the clinicohematological stage of lymphadenosis and the histochemical aspect of the lymphatic glands. Probl. ter., Bucur. 10 no.2:89-93 '59.

(LEUKEMIA, LYMPHOCYTIC, pathology)

(LYMPH NODES, chemistry)

LUPU, N. Gh., academician; VELICAN, C.; GOCIU, M.; VELICAN, Doina

Observations on the acid mucopolysaccharides of the respiratory
parenchyma in certain diseases with extrapulmonary localization.
Probl. ter. 10 no.1:11-18 '59.

(MUCOPOLYSACCHARIDES chemistry)
(LUNG chemistry)
(LIVER CIRRHOSIS pathology)
(LEUKEMIA, MYELOCYTIC pathology)
(NEOPLASMS pathology)

VELICAN, Ioana; SIGHETEA, Elena; IOTA, C. G.

Modifications in the respiratory parenchyma after electrical excitation of the cervical vagus. Probl. ter. 10 no.1:57-62 '59.

(LUNG pathology)
(VAGUS NERVE, physiology)

ZAMFIRESCU-GHEORGHIU, Marcela; RUNCAN, V.; POPESCU, T.; VELICAN, Doina;
VLADISCU, G.; CRISTESCU, Marceia.

Beta-glucuronidase activity in some forms of chronic hepatitis.
Stud. cercet. med. intern. 5 no.5:527-534 '64.

ZAMFIRESCU-GHEORGHIU, Marcela; GEORGESCU, M.; VELICAN, Doina; RUNCAN, V.

Contribution to the experimental study of the hepatic succinoxidase system and its correlations with biliary secretion, after administration of energetic enzymatic inhibitors. Stud. cercet. med. intern. 4 no.6:827-835 '63.

*

RUNCAN, V.; ZAMFIRESCU-GHEORGHIU, Marcela; POPESCU, T.; PAPPO, A.;
VELICAN, Doina; MIRON, C.

The evolution of chronic hepatitis following epidemic hepatitis.
Stud cercet med intern 4 no.3:307-316 '63.
(HEPATITIS) (HEPATITIS, INFECTIOUS)

VELICAN, Doina; VELICAN, C.

Interdependent relationships between the intralobar reticular fibers,
liver parenchyma and morphogenesis of cirrhosis. Rev. sci. med. 7 no.3/4:
219-222 '62.

(LIVER CIRRHOSIS) (CONNECTIVE TISSUE)
(HISTOLOGICAL TECHNIQS)

VELICAN, Dolna; CONSTANTINOVICI, A.; RUNCAN, V.; VELICAN, C.

Morphopathology and histochemistry of the lymphatic glands of the
hilus hepatis in chronic forms of epidemic hepatitis. Stud. cercet.
med. intern. 3 no.6:755-760 '62.

(HEPATITIS, INFECTIOUS) (LYMPH NODES) (NUCLEOPROTEINS)
(MUCOPOLYSACCHARIDES)

POPESCU, I.Gr.; ZAMFIRESCU-CHEORGHIU, Marcola; VELICAN, Doina; MIRON, C.;
RUNCAN, V.

Investigations of a complex treatment in chronic experimental toxic
hepatitis, Stud. cercet. mod. intern. 3 no.6:777-783 '62.

(HEPATITIS, TOXIC) (LIVER EXTRACTS) (ANDROGENS)
(PREDNISOLONE) (TRIAMCINOLONE) (VITAMIN B12)

LUPU, N. Gh., acad.; RUNCAN, V.; ZAMFIRESCU-GHEORGHIU, Marcela; PAPPO, A.;
MARCUS, N.; MIRON, C.; VELICAN, Doina; URSEA, N.; VLADESCU, C.

The value of several enzyme tests as compared with biological and
chemical tests in the early diagnosis of post-viral chronic hepatis.
Stud. cercet. med. intern. 2 no.5:653-661 '61.

(HEPATITIS, INFECTIOUS diagnosis)
(TRANSAMINASES blood)
(ALDOLASE blood
(BLOOD PROTEINS chemistry)
(ELECTROPHORESIS) (LIVER FUNCTION TESTS)

CIOBANU, V., dr, VELICAN, Doina, dr., candidat in stiinta medicale;
SUTEANU, St., dr.

Contributions to the study of the articular manifestations of
xanthomatosis. Med. intern. 13 no.12:1633-1644 D '61.

1. Lucrare efectuata in Institutul de medicina interna al Academiei
R.P.R. si Ministerul Sanatatii si Prevederilor Sociale, director,
acad. N.Gh. Lupu.
(LIPOIDOSIS complications) (JOINTS diseases)

VELICAN, Dořna; VELICAN, C.

Biology of the process of sclerosis. VI. Heparin action on pulmonary connective interstitial tissue. Stud. cercet. med. intern. 2 no.5: 715-721 '61.

(LUNG pharmacology)
(CONNECTIVE TISSUE pharmacology)
(HEPARIN pharmacology)

GIOBANU, V., dr.; VELICAN, Doina, candidat in stinta medicale, dr.

Hydralazine syndrome after prolonged treatment with adelphan. Med.
inter., Eucur 13 no. 3: 445-452 Mr '61.

1. Institutul de medicina interna al Academiei R.P.R., si M.S.P.S.,
director acad. N.Gh.Lupu.

(HYDRAZINES toxicology) (RESERPINE toxicology)
(HYPERTENSION therapy)

CIOBANU, V.; VELICAN, Doina; SUTEANU, St.

Contributions to the study of articular manifestations in
xanthomatosis. Rumanian med. rev. no.2:18-25 '62.
(XANTHOMATOSIS)

VELICAN, Donina; RUNCAN, V.; CONSTANTINOVICI, A.

Biology of the process of sclerosis. V. Studies of chronic forms of epidemic hepatitis. Stud. cercet. med. intern. 2 no.4:561-569 '61.

(HEPATITIS, INFECTIOUS complications)
(LIVER CIRRHOSIS etiology) (GLYCOPROTEINS chemistry)
(MUCOPOLYSACCHARIDES chemistry) (LIVER chemistry)

LUPU, N.Ch., academician; POPESCU, I.Gr.; ZAMFIRESCU-GHEORGHIU, Marcola;
VELICAN, Doina; CIOBANU, Florina

Therapeutic investigations in experimental toxic chronic hepatitis.

Stud. cercet. med. intern. 2 no.6:837-842 '61.

(HEPATITIS experimental) (CYTOCHROMES pharmacology)
(VITAMIN B 12 pharmacology) (PREDNISOLONE pharmacology)

ZAMFIRESCU-GHEORGHIU, M.; VELICAN, D.; PETRESCU, M.; GROZIA, P.; SIGETIA, E.

Contributions to the study of the enzymatic pattern of normal and
pathological lymph nodes. Rev. sci. med. 6 no.3/4:217-220 '61.
(HODGKIN'S DISEASE chemistry) (LYMPHADENITIS chemistry)
(LYMPH NODES chemistry) (SUCCINIC DEHYDROGENASE chemistry)
(CYTOCHROMES chemistry)

VELICAN, Doina; VELICAN, C.

Biology of the process of sclerosis. IX. Observations on intralobar reticulin changes in the pre-cirrhotic liver. Stud. cercet. med. intern. 3 no.3:79-85 '62.

(LIVER CIRRHOSIS pathology) (RETICULIN)
(SCLEROSIS pathology)

ZAMFIRESCU-GHEORGHIU, Marcella; POPESCU, I.Gr.; VELICAN, Doina; MIRON, C.

Contribution to the study of some energetic enzymes during experimental chronic toxic hepatitis. Stud. cercet. med. intern. 2 no.1:111-117 '61.

(LIVER chemistry) (HEPATITIS experimental)
(ALDOLASE chemistry) (CYTOCHROMES chemistry)
(SUCCINIC DEHYDROGENASE chemistry) (VITAMIN B 12 pharmacology)

VELICAN, Dona; SIGHETEA, Eleana; IOTA, C.G.

Changes of the respiratory parenchyma after electric stimulation
of the cervical vagus nerve. Probl. ter., Bucur. 10 no.1:57-62 1959.

(LUNGS, physiology

eff. of electric stimulation of cervical vagus nerve
on resp. parenchyma)

(NERVES, VAGUS, physiology
same)

POPESCU, I.Gr.; ZAMFIRESCU-GHEORGHIU, Marcela; VELICAN, Doina; RUNCAN, V.;
VLADISCU, C.

Investigations of curative therapy with energetic enzymes and
Juvocirrhoh in experimental toxic chronic hepatitis. Stud. cercet.
med. intern. 4 no.2:219-223 '63.

(HEPATITIS, TOXIC) (CYTOCHROMES) (CATALASE)
(GLUCOSIDASE) (COENZYMES) (PROTEIN HYDROLYSATES)

VELICAN, C.; VELICAN, Doina

Biology of the sclerosis process. XI. Histochemistry of some glucido-protein complexes and scleroproteins of the connective tissue in normal and pathological spleens. Stud. cercet.med. intern. 4 no.2:199-206
'63.

(SPLEEN)	(GLYCOPROTEINS)	(CONNECTIVE TISSUE)	(SCLEROSIS)
(SPLENOMEGALY)	(PAPAIN)	(HYALURONIDASE)	(PEPSIN)
(TRYPSIN)	(PEPTIDE HYDROLASES)		

VELICAN, Doina; RADU, Sorina; VELICAN, C.

Biology of the sclerosis process. XX. Heterogeneity of the constituents of the glucide fractions of human reticulon. Stud. cercet. med. intern. 6 no.3:301-306 '65.

RUMANIA/Human and Animal Morphology - Histochemistry.

S

Abs Jour : Ref Zhur Biol., No 5, 1959, 21626

Author : Vasilescu, C., Zirra, A.M., Velican, E.

Inst : Rumanian Academy of Sciences

Title : Histochemical Investigation of Differences in the Nucleic Acid Content of the Thyroidectomized Guinea Pig, the Guinea Pig After Injection of Thyroid Extracts and a Guinea Pig Infected with Tubercle Bacilli, Treated and Untreated with Antibiotics

Orig Pub : Studii si cercetari inframicrobiol., microbiol. si parazitol. Acad. RPR, 1956, 7, No 3-4, 537-551

Abstract : The injection of thyroid extracts leads to a decrease in the nucleic acid content in animal tissues; thyroidectomy gives the opposite results. The opinion has been expressed that in tuberculous intoxication

Card 1/2

ROMANIA/Human and Animal Morphology - Histochemistry.

Abs Jour

: Ref Zhur Biol., No 5, 1959, 21626

S

the nucleic acids of the degenerating cells may, by combining with proteins, influence the formation of connective-tissue cicatricial fibers. Stimulation of the formation of fibrillar scar structures in antibiotic treatment, in the authors' opinion, is explained by the accumulation of nucleic acids by the cellular structures of the tuberculous foci.
-- V.V. Portugalov

Card 2/2

- 36 -

VELICAN, EL.

ROMANIA/Human and Animal Physiology - The Sensory Organs

T-13

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001859310014-9"

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65825

Author : Simionescu-Carapancea S., Velican EL., Haulica I., Bordeianu A.
Inst : Rumanian Academy
Title : The Role of the Sex Hormones in Determining the Reactivity of the Interoceptors of the Uterus

Orig Pub : Studii si cercetari. fiziol. Acad. RPR, 1956, 1, No 3-4, 381-400

Abstract : The leading role played by the follicular hormone in determining the preserving the reactivity of the interoceptors of the uterus is noted, as well as its significance in the maintenance of the reactivity, not only of the muscle fibers of the uterus, but also of the nervous system. The data support the concept of Danielopolu of the reactivating role of the hormones and vitamins in preserving the cortico-endocrine equilibrium of the effectors, in the presence of which, activating factors maintain the tonus of the entire organism,

Card : 1/2

RUMANIA/Human and Animal Physiology. The Sensory Organs

T-13

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 65825

influencing not only the glands of internal secretion, but the nervous system as well.-- F.I. Munladze

Card : 2/2

VELICAN, RUMINIA/Human and Animal Morphology (Normal and Pathological)
Nervous System.

5

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 31209

Author : Vasilescu G., Velica Elena

Inst : Not Given

Title : Histological Changes of the Autonomic Ganglia During Pregnancy of Animals.

Orig Pub : Studii si cercetari fiziologice Acad. RPR, 1956, 1, No 3-4, 449-452

Abstract : The upper neck, stellate and semilunar ganglia were studied in 15 pregnant rabbits and guinea pigs. In the first half of pregnancy, the gonadotropic, hypophyseal-placental and estrogen-progesterone influences cause hypertrophy of the cells and accumulation of tigroid, seemingly, as a result of the predominance of synthesis over dissimulation. In the second half of pregnancy, when the influence of folliculin appears, light vesicular cells with a small tigroid content predominate. In the period of labor and after deliveries,

Cord : 1/2

RUMANIA/Human and Animal Morphology (Normal and Pathological)
Nervous System.

S

' Abs Jour : Ref Zhur - Biol., No 7, 1953, No 31209

1

schromatosis and vacuolation of the cells are observed,
along with proliferation and regeneration.

Card : 2/2

RUMANIA/Human and Animal Physiology (Normal and Pathological).
Sex Glands.

T-7

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75-063

Author : Velican, Elena; Herteanu, H.; Nicolau, Vantita.

Inst : -

Title : Experimental Investigation of Changes of the Dynamics of
the Estral Cycle Under the Influence of Neurotic Disorders
of Higher Nervous Activity.

Orig Pub : Fiziol. norm. si patol., 1956, 3, No 5, 558-567.

Abstract : No abstract.

Card 1/1

- 85 -

Country : Rumania T
Category= : Human and Animal Physiology, The Nervous System
Ref Zhur Biol, No. 2, 1959, No. 8423
Abs. Jour. :
Author : Velican, E.; Bordeianu, A.
Institut. : An Investigation of the Morphological and Func-
Title : tional Reaction of the Uterine Nerve Endings to
Acetylcholine.

Orig. Pub. : Comun. Acad. RPR, 1957, 7, No. 1, 135--141

Abstract : Acetylcholine in doses ranging from 10 to 2000 μ produced a more intensive staining with methylene blue of the nerve endings of the uterine interoceptors in the perfused horn than in the control horn, through which methylene blue alone was perfused. The stained nervous reticulum became thicker; the intrastructural relationships of the fibers was altered in the direction of increased granularity. Similar changes occurred during ischemia of the uterine horn. They resembled the phenomena described for a stage of hormonal activity. Considering
Card: 1/2

Country : Rumania T
Category : Human and Animal Physiology, The Nervous System

Abs. Jour. : Ref Zhur Biol, No. 2, 1959, No. 8423

Author :
Institut. :
Title :

Orig Pub. :

Abstract : the histochemical effect of the perfusion fluid,
the authors are of the opinion that the states
of excitation of the terminal nerve apparatuses
assumed a morphofunctional nature.--I.M.Sheyman

Card: 2/2

VENICAN, T.

The influence of superior nerve centers on the hypophysis-uterus-ovaries relationship; the effect of Benzadrine on the biological reaction of pregnancy in impubic rats.

p. 161 (Academia Republicii Populare Romane. Institutul de Fiziologie Normala si Patologica. Studii Si Cercetari De Fiziologie. Vol. 1, no. 1/2, Jan./June 1956. Bucuresti, Rumania)

Monthly Index of East European Accessions (EMEA) IC. Vol. 7, no. 2, February 1958

VELICAN, E.

EXCERPTA MEDICA Sec.3 Vol.11/7 Endocrinology July 57

1316. VELICAN E., DINULESCU E. and BORDEIANU A. *Contribuții la pro-

1316

CONT.

blema histogenezei insulelor Langerhans la omul adult. Contribution to the problem of the histogenesis of the Langerhans islets in adult man REV.FIZIOL.NORM.PATOL. 1956, 3/3 (369-376) Illus. 8

A histological and histochemical study was made of a part of a pancreas resected from a patient subjected to operation for a hypoglycaemic syndrome which had responded paradoxically to treatment with ACTH and perfusion of glucose. The description of the fragment, the microphotographs shown and the results of the histochemical examination show diffuse hyperplasia of the endocrine tissue (β cells) with aspects of insular neogenesis at the expense of the exopancreatic canalicular and centroacinous cells, and proliferation of the intraparenchymal parasympathetic ganglia. This case proves that neogenesis of the Langerhans islets may take place in adult man, linked to a syndrome of insular hypersecretion.

Graur - Bucharest (1, 3, 5.)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859310014-9

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859310014-9"

Velican, E.

EXCERPTA MEDICA Sec.2 Vol.10/4 Physiology, etc. Apr 57

1845. VELICAN E. and BUDULECI I. *Influența centrilor nervoși superiori asupra relațiilor hipofizo-utero-ovariene. Acțiunea benzedrinei asupra reacției biologice de sarcină la șobolance impubere. Influence of higher nervous centres on pituitary-uterine-ovarian relationships. Effect of amphetamine on the biological reaction of gestation in the prepuberal female rat STUD. CERC. FIZIOL. 1956, 1/1-2, 163-170; illus. 8

Amphetamine intensifies the pituitary-uterine-ovarian reaction to chorionic hormones of urine from pregnant women in the immature female rat, as shown by the fact that ovarian hyperaemia, follicle maturation, presence of haemorrhagic follicles, luteinization and utero-vaginal hypertrophy appear earlier and are more intense and more sensitive. These findings confirm previous work (under the direction of the late Danielopolu) which showed that chloral hydrate inhibited the biological reaction of gestation, and demonstrate that the pituitary-ovarian inter-relationship is mediated not only by a hormonal mechanism but also via the nervous system. It is proposed to use the pituitary-uterine-ovarian reaction as a non-specific pharmacological test in a study of the equilibrium of functions of the organism.

Graur - Bucharest (II, 3, 10*)

VASILESCU, C.; ZIRRA, A.M.; VELICAN, E.

Histochemical study of the changes in nucleic acids in thyroidectomized guinea pigs, guinea pigs treated with thyroid extract and guinea pigs infected with Mycobacterium tuberculosis and treated and not treated with antibiotics. Stud. cercet. inframicrobiol., Bucur. 7 no.3-4:537-551 July-Dec 56.

1. Comunicare prezentata de S. Oeriu, membru corespondent al Academiei R.P.R., in sedinta Sectiei de stiinte medicale a Academiei R.P.R.

- (NUCLEIC ACIDS, metabolism
in thyroidectomized, thyroid-treated & tuberc.-infected
guinea pigs treated & not treated with antibiotics)
- (THYROID GLAND, physiology
eff. on metab. of nucleic acids in normal & tuberc.
guinea pigs)
- (TUBERCULOSIS, experimental
nucleic acid metab., eff. of antibiotics)
- (ANTIBIOTICS, eff.
on nucleic acid metab. in tuberc.-infected guinea pigs)

CANTACUZINO, D., Dr.; VELICAN, Elena, dr.

A case of hepatic miliary tuberculosis; importance of liver puncture biopsy in diagnosis of hepatic miliary tuberculosis. Med. int., Bucur. 9 no.2:307-313 Feb 57.

1. Lucrare efectuata in Institutul de fiziologie normala si patologica Prof. Dr. D. Danielopolu, sub conducerea prof. I. Bruckner.

(TUBERCULOSIS HEPATIC, case reports
miliary, diag., liver puncture biopsy)
(TUBERCULOSIS MILIARY, case reports
hepatic, diag., liver puncture biopsy)

VELICAN, ELENA

BRUCKNER, I.;PURICH, S.;VELICAN, Elena

Leukemic reticulosis with unusual blood protein picture. Med. int.,
Bucur. 9 no.6:906-915 June 57.

(SERUM GLOBULIN

macroglobulinemia with leukemic reticulosis)

(LEUKEMIA, case reports

leukemic reticulosis, with macroglobulinemia)

VALICAN, E.

Histochemical study of variations of tissue enzymes
activated by certain stimulation. p. 895. ACADEMIA
REPUBLICII OMIULARE ROMANE Rumania Vol. 5, No. 5, May 1955.

SOURCE: EAST EUROPEAN ABBESSIO'S LIST (EEAL) Library of Congress
Vol. 5, No. 11, August 1956.

LUPU, N.G., akademik; VELIKAN, K. [Velican, K.]; VELIKAN, Doyan [Velican, D.]
(Bukharest)

Intrapulmonary accumulations of acid mucopolysaccharides. Arkh.pat.
21 no.6:51-59 '59. (MIPA 12:12)

1. Iz Instituta terapii (dir. - akad. N.G. Lupu) Akademii Ruzynskoy
Narodnoy Respubliki.

(MUCOPOLYSACCHARIDES, metab.
acid mucopolysaccharides, accumulations in interstitial
tissue of lungs (Rus))

(LUNGS, metab.
acid mucopolysaccharide accumulations in interstitial
tissue (Rus))

VELIKAN, K.

T

Country : ROMANIA

Category: Human and Animal Physiology. Respiration

Abs Jour: RZhBiol., No 19, 1958, 88890

Author : Lupu, N.G.; Velikan, K.; Stoika, G.; Gochu, N.

Inst : Rumanian Academy

Title : Experimental Investigation of the Role of the Nervous System in the Development of Histaminic Pulmonary Sclerosis.

Orig Pub: Zh. med. nauk, Med. RNR, 1956, No 2, 119-127

Abstract: Following the administration of histamine (I) (10 γ) into the middle lobe of the corresponding lung of guinea pigs with unilateral vagotomy, the content of I in the extract of the pulmonary tissue was lower (within 24 hours) than in guinea pigs with intact innervation. Within 6 months following

Card : 1/3

Country : RUMANIA
Category: Human and Animal Physiology. Respiration

T

Abs Jour: RZhDiol., No 19, 1958, 88890

triple (at intervals of 5 days) administration of the identical dose of I in normal guinea pigs, fibrosis of the lungs developed, particularly marked in the middle lobe of the right lung where I was injected; at the end of the same period both lungs of the vagotomized animals looked normal. During earlier stages (within one month following the injection) similar macro- and microscopical changes (mainly disturbances of hemodynamics) were observed in both groups of animals; however, these changes were less marked in the vagotomized guinea pigs. The above results are considered as proof of formation of a "vicious reflex cycle" following

Card : 2/3

T-54

Country : RUMANIA

Category: Human and Animal Physiology. Respiration

T

Abs Jour: RZhBiol., No 12, 1958, 88890

the injection of I into the lungs leading through intensification of trophic disturbances to ever greater accumulation of I in the tissues and to the development of sclerosis. Exclusion of intero-reception of the lung interrupts this vicious cycle. --
B. A. Katsnel'son.

Card : 3/3

ROMANIA/Human and Animal Morphology. Circulatory System

Abs Jour: Ref Zhur - Biol., No 19, 1958, 88452

Author : Velican, S.; Constantinescu, D.

Inst : Not Given

Title : The Pulmonary capillaries

Orig Pub: Med. interna, 1957, 9, No. 9, 1288-1301

Abstract: No Abstract

Card 1/1

58

COUNTRY : RUMANIA
 CATEGORY : Cultivation of Plants. Cereals. M
 ABS. JOUR. : RZhBiol., No. 23 1958, No. 104629
 AUTHOR : Velican V., Gebotaru, V., Pop, E., Pop, O
 INST. :
 TITLE : Results of Comparative Trials of Varieties and Strains of
 Spring Barley at Kaluga Agronomic Scientific Research
 Station in 1949-1956.
 ORIG. PUB. : Studii si cercetari ag on. Acad. RPR Fil. Cluj, 1957, 8
 No. 1-2, 23-42
 ABSTRACT : Data on the study of the varieties of *Hordeum distichum*
 and *H. vulgare*. Early maturing varieties: Prekotsius 0143,
 Khodoninskiy var, Pisaretskiy, Medikum 46. Late maturing:
 Ariste nateae, Kluzh 52-3-3, Chensad 395 and Chensad 396.
 Resistant to loose smut: Pisaretskiy, Dornbyurger and
 Khanna Kargin; resistant to damping-off - Pisaretskiy,
 IKAR 143, Kluzh 139, Kluzh 123. The highest yielding var-
 ieties: Abed Mayya, Vyetka, Pisaretskiy, Sfalels Gol'-
 derste, Abed Keniya, strain 51-21, 51-22, Kluzh 52-410 and
 Kluzh 52-323. Local climatic conditions are favorable for
 the cultivation of barley brewing. -- A. F. Khlystova

Card:1/1

VELICAN-GABRIELTESCU, Elena; BORDEIANU, Aurelia; SAVA, Maria

Experimental studies of the effect of atropine on the cortico-hypophyso-
utero-ovarian mechanism. Bul. stiint., sect. med. 9 no.1:191-210 1957.

(CENTRAL NERVOUS SYSTEM, physiol.

regulation of pituitary-utero-ovarian system, eff. of
atropine administered intravenously & intracranially, in
rats)

(PITUITARY GLAND, eff. of drugs on
atropine, on pituitary-utero-ovarian system, eff. of admin.
in rats)

(UTERUS, eff. of drugs on
same)

(OVARIES, eff. of drugs on
same)

(ATROPINE, effects
on pituitary-utero-ovarian system & its regulation by CNS,
eff. of admin., in rats)

Ca

11A

Processes and Properties Index

Sodium nitrite as an antidote in poisoning by hydrocyanic acid, hydrogen sulfide and fluorides. *Algis Veliha. Praktický Lékár 17, 356-8(1937); Chem. Otkaz 13, Abstracts 213.*—The NaNO_2 converted a portion of the hemoglobin into methemoglobin which combined with the HCN to form cyanomethemoglobin. Rabbits in glass cages were exposed to H_2S until they ceased breathing; a 1-cc injection of 10% NaNO_2 revived the rabbits so that in 5-10 min. they ran about actively. A sudden poisoning with concd. H_2S pptd. convulsions, with a rapid shallow respiration in rabbits; all rabbits were saved by the injection of NaNO_2 .
Frank Mareš

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

CZECHOSLOVAKIA / Analytical Chemistry. Organic Analysis. E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 82058

Author : Velich, V.

Inst : ~~not given~~

Title : The Determination of 8-Oxyquinoline-5-sulfonic
Acid

Orig Pub : Collect. Czechosl. Chem. Commun., 1958, 23,
No 9, 1803-1805

Abstract : See RZ Khim, No 24, 1958, No. 81375

Card 1/1

VELICH, V.

Distr: 4E2c(j)

Influence of a softening agent on the second-order transition temperature of methyl methacrylate polymerized by a low-temperature initiator. Vratislav Velich (Vysoká škola chem.-technol., Pardubice, Czech.). Sborník řád. prac. Vysoké školy chem.-technol. Pardubice 1959, 203-8. -- Methyl methacrylate was polymerized at 30° with 0.03% p-toluenesulfonic acid. The polymer had a 2nd-order transition temp. (T) of 82.5°; after addn. of 2-8% di-Bu phthalate, T dropped to 80.5-70.5°. It was shown that T^{-1} is linearly dependent on W/s , where W is the wt. fraction of the polymer in softened samples.

Alexej B. Borkov

1-99 (N3)

11
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VELICH, V.

CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Inorganic Chemistry.

E

Abs Jour: Ref Zhur-Khin., No 24, 1958, 81375.

Author : Velich V.

Inst :

Title : Determination of 8-Oxyquinoline -5-Sulfonic Acid.

Orig Pub: Chem. listy, 1958, 52, No 2, 346-348.

Abstract: The method is based on iodation of 8-oxyquinolin-5-sulfonic acid (I) solution with a 4% NaOH solution (approx. 0.45 gr of I) containing an excess over 0.1n I_2 solution (50 cc) (sic). After 5 min. of standing and after acidulation the sample is titrated with 0.1n $Na_2S_2O_3$ solution. 1cc of 0.1n I_2 soln. corresponds to 0.01126 gr of I. Accuracy of the analysis does not depend on the excess of iodine,

Card : 1/2

VELICH, Vra

Rheological properties of optical resins. Jemna mech opt 5 no.9:265-
268 S '60

1. Vysoka skola chemicko-technologicka, Pardubice.

KOZENY, M.; VELICH, V.

Polarographic behavior of monoazo dyes and their fastness to light.
Coll Cz Chem 25 no.4:1031-1036 Ap '60. (EEAI 9:12)

1. Institut für physikalische Chemie, Technische Hochschule für
Chemie, Pardubice.
(Polarograph and polarography)
(Azo dyes)

Buabs.

P. V. (General technique & ...)
(General - Miscellaneous)

2344. Aid to analytical calculations. V. Velich (Chem. Ind.,
1947, 61, 161).—A slide-rule is described. R. Tausch.

1. VELICHANSKIY, L.
2. USSR (600)
4. Greece - Description and Travel
7. Around and about Greece, Vokrug. sveta, No. 2, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

VELICHANSKIY, L.; TYURINA, L.

The working class of Greece continues the fight. Sov. profsoiuzy 1 no.
4:73-79 D '53. (MLRA 6:12)
(Greece--Trade-unions) (Trade-unions--Greece)

GRODNIK, M.G., inzh.; BYKOVA, E.N., inzh.; VELICHANSKIY, Ya.A., inzh.

Purification and drying of carbon dioxide gas in the systems
of carbon dioxide plants. Khol. tekhn. 39 no.5:35-36 S-0 '62.
(MIRA 16:7)

1. Gosudarstvennyy institut po proyektirovaniyu kholodil'nikov,
fabrik morozhenogo, zavodov sukhogo i vodnogo l'da i zhidkoy
uglekisloty.

(Carbon dioxide) (Gases—Purification)

17

PROCESSING AND PROPERTY DATA

Investigation of New Age-Hardening Alloys. 1. (Improvement of Beryllium-Copper Alloys.) Y. A. Borin and I. P. Velichenko (*Sbornik Nauch. Trud. Moskov. Inst. Tsvetnykh Metal. Zed.*, 1958, (5), 4-21; *Khim. Refrat. Zhur.*, 1959, 1, (11/12), 96; *C. Abn.*, 1959, 53, 9250).--[In Russian.] The effect of admixtures on copper-beryllium alloys containing 1-1.5% beryllium was determined. The alloys were annealed at 750-950° C. and then kept at 250-600° C. for 2-3 hrs. The maximum effect of the addition of zinc on the hardness of the alloy was obtained with a 10% zinc content. Addition of manganese up to 5% increases the aging effect; this is reduced on further increase of the manganese content. A very small effect was observed from the addition of cobalt. Optimum thermal treatment of semi-finished products obtained under plant conditions from copper alloys containing beryllium 1.5 and cobalt 0.3% consisted of annealing at 800-825° C., quenching in cold water, and keeping at 320-325° C. for 2-3 hrs. Their mechanical properties were: $\delta = 135-140$ kg./mm.² with an elongation of 1-2%, modulus of elasticity 14,350-15,300 kg./mm.². From nickel-copper-beryllium alloys (No. 1 with beryllium 1.47, copper 18.5%, and No. 2, beryllium 1.54 and copper 27.82%) strip was obtained by cold rolling. The optimum thermal treatment was annealing at 1000° C., quenching in cold water, and keeping at 450° C. for 9-12 hrs. The mechanical properties were: No. 1, $\delta = 173$ kg./mm.², relative elongation 8%; No. 2, $\delta = 184$ kg./mm.², relative elongation 6%. The tensile strength and relative elongation of both alloys were higher than for the binary nickel-beryllium alloy with beryllium 2%, produced under similar conditions. Alloys of this type are corrosion-resistant.

AS 6-55 A METALLURGICAL LITERATURE CLASSIFICATION

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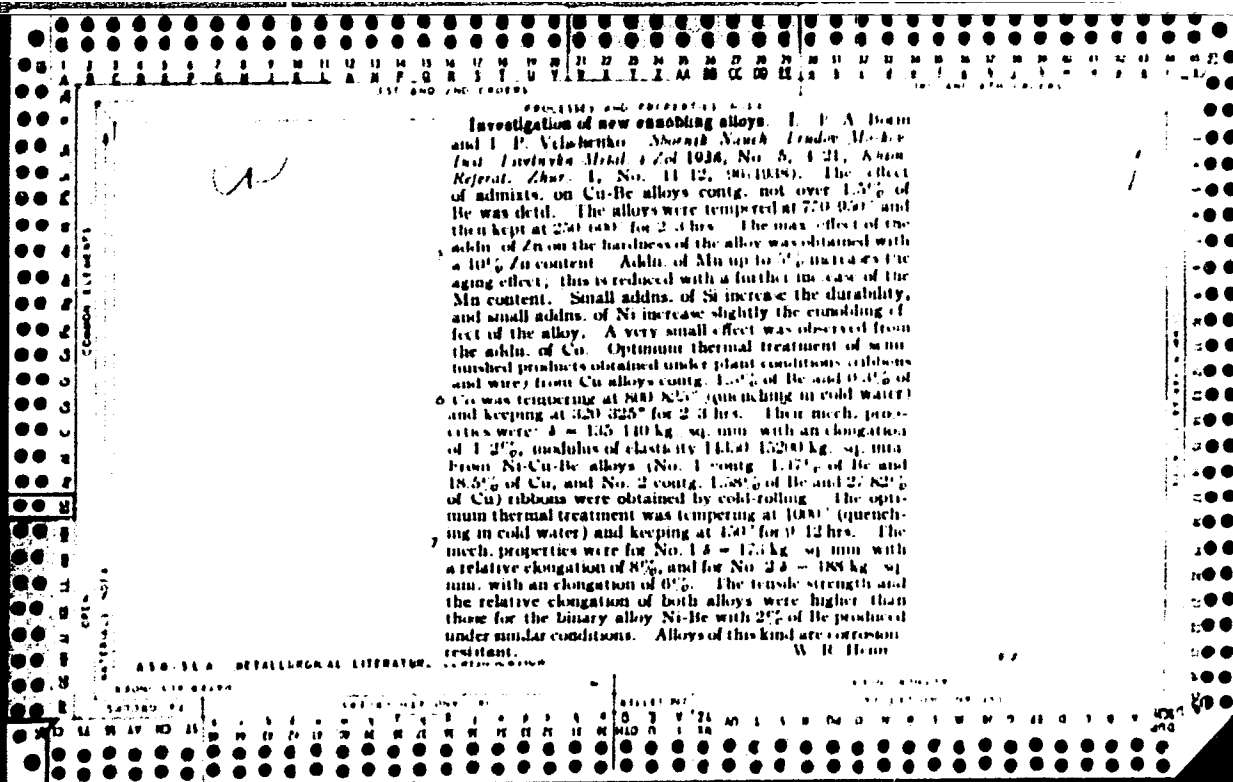
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VELICHENKO
KAMANIN, I.G.; VMLICHEKO, A.A.

Study of periglacial processes. Izv. AN SSSR, Ser. geog. no.6:145-
152 N-D '57. (MIRA 11:1)

(Geology, Stratigraphic)

VELICHENKO, A.V.

(Andrey Vasil'yevich)

"Material for an Understanding of the Nature of Formation of Traumatic Shock," (Dissertation), Academic Degree of Doctor in Medical Sciences, based on his defense, 18 January 1954, in the Council of the Second Moscow State Medical Inst im. Stalin.

Kursk Medical Inst

●-M- 3,054,778, 2 Oct 57

Velichenko, B.N.

SKOKAN, A.I., inzh.; VELICHENKO, B.N., inzh.

The O-49 low-capacity diaphragm compressor. Stroi. i dor. mashinost. (MIRA 10:11)
2 no. 9:24-25 S 157.

(Air compressors)

VELICHENKO, B.N.

SKOKAN, A.I., inzh.; VELICHENKO, B.N., inzh.

Building diaphragm compressors abroad. Stroi. i dor. mashinostr.
3 no.2:39-40 P '58. (MIRA 11:2)

(Spray painting)
(Air-compressors)

LASHKEVICH, A.M.; TERENT'YEVA, A.A.; IVANOVA, L.S.; BORODULINA, M.A.;
VELICHENKO, I.N.; NIKULENKO, V.S.; KONSHINA, T.I.; SHAKHOVA, T.P.;
MYASHINA, A.A.; YASINSKAYA, Z.A.; AGAL'TSEVA, N.B.; SEL'MENSKAYA,
Ye.G.; KRETSMER, V.L.; KONONOVICH, L.K.; FEDORAYEVA, A.M.; TKACHUK,
L.Ya.; VIATKINA, G.A.; SLOUSHCH, V.S.; RACHINSKAYA, L.N.; PORTNAYA,
R.Yu.; KARAKOVSKAYA, E.M.; POKROVSKAYA, M.A.; KORNEVA, A.I.;
YERSHOVA, K.F., otv. red.; Prinsipal uchastiye KAMANOV, M.I., red.;
LAGAREVA, A.P., otv. za vypusk; NIKITINA, I.P., tekhn. red.

[Economy of Novosibirsk Province; collection of statistics] Narodnoe
khoziaistvo Novosibirskoi oblasti; statisticheskii sbornik. Novo-
sibirsk, Gosstatizdat TsSU SSSR, 1961. 331 p. (MIRA 15:6)

1. Novosibirsk. Oblastnoye statisticheskoye upravleniye. 2. Na-
chal'nik Statisticheskogo Upravleniya Novosibirskoy oblasti (for
Yershov). 3. Zamestitel' nachal'nika Statisticheskogo Upravleniya
Novosibirskoy oblasti (for Kamanov).
(Novosibirsk Province--Economic conditions)

BORMINSKIY, N.K.; GAYSIN, N.M.; VELICHENKO, M.F., red.

[Pilot dyeing, pickling and packaging shop] Opytno-pokazatel'nyi kvasil'no - marinadno - rasfasovochnyi tsekh. Moskva, 1963. 30 p. (I Seriya: Kompleksnaya mekhanizatsiya i avtomatizatsiya predpriyatiy, no.70)
(MIRA 17:9)

1. Moscow. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii po avtomatizatsii i mashinostroyeniyu.

RUNOVA, A.P.; VAGNER, A.A.; VELICHENKO, M.F., red.; VINOGRADOV,
Ye.A., tekhn. red.

[Catalog-handbook "Motor vehicles of the U.S.S.R."] Ka-
talog-spravochnik "Avtomebili SSSR". Moskva. Pt.1. [Motor-
trucks and motorbuses] Avtomobili i avtobusy. 1963. 137 p
(MIRA 16:9)

1. Tsentral'nyy institut nauchno-tekhnicheskoy informatsii
po avtomatizatsii i mashinostroyeniyu.
(Motortrucks--Catalogs) (Motorbuses--Catalogs)

ARZHANTY, P.M.; VELICHENKO, N.I.

Equipment for the study of the kinetics of metal oxidation. Issl. po
zharopr. splav. 3:381-393 '58. (MIRA 11:11)
(Thermal analysis) (Oxidation-reduction reaction)

VELICHENKO, N.L.

Work of the Council of Nurses. Med.sestra 17 no.5:46 My'58
(MIRA 11:6)

1. Iz Vitebskoy oblastnoy klinicheskoy bol'nitsy (glavnyy
vrach - I.N. Stepanenko), Vitebsk.
(VITEBSK--NURSES AND NURSING)

VELICHENKO, V.

Work of the Vitebsk Province Surgical Society for 1958. Zdrav.
Belor. 5 no.8:79 Ag '59. (MIRA 12:10)
(VITEBSK PROVINCE--SURGICAL SOCIETIES)

VELICHENKO, V.

In the Vitebsk Surgical Society. Zdrav.Belor. 4 no.3:76 Nr 158.
(MIRA 13:7)

(VITEBSK--SURGICAL SOCIETIES)

OLESHKEVICH, I.; VELICHENKO, V.

Work of the Vitebsk Province Society of Surgeons during 1961.
Zdrav. Bel. 8 no.4:70-71 Ap '62. (MIRA 15:6)
(VITEBSK PROVINCE--SURGICAL SOCIETIES)

OLESHKEVICH, I.; VELICHENKO, V.

Tenth anniversary of Vitebsk Province Surgical Society. Zdrav. Bol.
7 no.6:66-67 Je '61. (MIRA 15:2)
(VITEBSK DISTRICT--SURGICAL SOCIETIES)

VELICHENKO, V.

Activity of the Vitebsk Province Surgical Society. Zdrav. Belor.
6 no.9:76 S '60. (MIRA 13:9)
(VITEBSK PROVINCE—SURGICAL SOCIETIES)

VELICHENKO, V. K.

USSR / Human and Animal Morphology (Normal and Pathological). The Peripheral Nervous System. S-2

Abs Jour: Ref Zhur-Biol., No 10, 1958, 45537

Author : Velitchenko, V. K.

Inst : Kursk Medical Institute

Title : The Nerves of the Periosteum of the Bones of the Tibia.

Orig Pub: Sb. nauchn. stud. rabot. Kurskiy med. in-t, 1956, vyp 3, 12-16.

Abstract: By the Vorobyev method of macro-microscopic preparation, it is demonstrated that, in the innervation of the periosteum of the bones of the tibia, there participate the common, the deep and the superficial fibular and tibial nerves, and also the periarterial plexus. -- D. D. Ivanova

Card 1/1

VELICHENKO, V.M., dotsent

Experimental study and use of ileorectoplasty in operations
for cancer of the rectum. Khirurgiia no.8:109-116 Ag '62. (MIRA 15:8)

1. Iz kliniki gosspital'noy khirurgii (zav. - prof. I.V. Olesh-
kevich) Vitebskogo meditsinskogo instituta.
(RECTUM--CANCER) (ILEUM--TRANSPLANTATION)

VELICHENKO, V.M., dotsent

Pancreatoduodenal resection in cancer of the head of the pancreas. Zdrav. Bel. 9 no.3:69 Mr'63 (MIRA 16:12)

1. Iz kliniki gospiatal'noy khirurgii (zav. - prof. I.V. Oleshkevich) Vitebskogo meditsinskogo instituta.

VELICHENKO, V.M., kand.med.nauk

Some problems of principle in ileo-coloplasty. Khirurgia no.8:
(MIRA 15:5)
56-63 Ag '61.

1. Iz gosspital'noy khirurgicheskoy kliniki (zav. - prof. I.B.
Oleshkevich) Vitebskogo meditsinskogo instituta.
(ILEUM--TRANSPLANTATION) (COLON--SURGERY)

VELICHENKO, V.M.

Discussion of S.R. Mirotvortsev's book "Pages of Life", Zdrav. Belor
5 no.2:70 Y '59. (MIRA 12:7)

(MIROTVORTSEV, SERGEI ROMANOVICH, 1878-1949)

VERKHNEGO, N.M., 1930; 1930, K.M.

Non-linear and reciprocal interaction of the electro-
plasma in the representation of the plasma and plasma. (Vilnius, 1930)
1930, 1930-1930, 1930

1. Katedra hospital'nykh khirurgii (med. - prof. I.B. Olekshovich)
Vitebskogo meditsinskogo instituta.

VALICHENKO, V.M. kand.med.nauk; YUPATOV, S.I.

Suture of a heart wound. Zdrav.Belor. 5 no.7:59-60 J1 '59.
(MIRA 12:9)

1. Iz Beshenkovichskoy rayonnoy bol'nitsy Vitebskoy oblasti
(glavnyy vrach A.G.Lur'ye).
(HEART--SURGERY)

VELICHENKO, V.M., kand.med.nauk

Plastic restorative operation in fistula and high stricture of the
common bile duct. Zdrav.Bel. 7 no.11:20-22 N '61. (MIRA 15:11)

1. Iz kliniki gosptal'noy khirurgii (zav. - prof. I.B.Oleshkevich)
Vitebskogo meditsinskogo instituta.
(FISTULA, BILIARY)

VELICHENKO, V.M.

Problem of diagnosis and therapy of gastric phlegmon. Khirurgia
no.3:74 Nr '54. (MIRA 7:5)

1. Iz gosspital'noy khirurgicheskoy kliniki (dir. - prof. I.B.
Oleshkevich) Viatebskogo meditsinskogo instituta.
(STOMACH, diseases, (PHLEGMON,
*phlegmon, diag. & ther.) *stomach, diag. & ther.)

VELICHENKO, V. M. Doc Cand Med Sci -- (diss) " Ileocoloplastics
in the clinical^m and experimental[^] ~~studies~~" Vitebsk, 1957. 15 pp
20 cm. (Minsk State Medical Inst)

(KL, 21-57, 106)

-105-

VELICHENKO, V.M.

Use of ileoplasty in rectal cancer. Khirurgiia 36 no.2:53-56
P '60. (MIRA 13:12)
(RECTUM--CANCER) (ILEUM--SURGERY)

VELICHENKO, V.M.

Some physiological features of ileotransplant used for replacement
of the sigmoid and rectum; clinical and experimental study. Khirurgiia
35 no.8:58-63 Ag '59. (MIRA 13:12)
(INTESTINES--SURGERY)

VELICHENKO, V.M., dotsent

Technic of surgery in erroneously placed gastroileoanastomosis
following resection of the stomach. Khirurgiia no.12:109-110
'61. (MIRA 15:11)

1. Iz kliniki gosptal'noy khirurgii (zav. - prof. I.B. Olesh-
kevich) Vitebskogo meditsinskogo instituta.
(STOMACH—SURGERY) (ILEUM—SURGERY) (JEJUNUM—SURGERY)

VELICHENKO, V.M.

Some data on the results of surgical treatment of cancer of the large intestine. Khirurgiia no.10:25-28 0 '54. (MLRA 8:1)

1. Iz kliniki gosspital'noy khirurgii (dir.-prof. I.B.Oleshkevich) Vitebskogo med. inst. i Vitetskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach V.M.Velichenko)
(INTESTINE, LARGE, neoplasms
surg., results)

VELICHENKO, V.M.

Use of ileocoloplasty in cancer and gangrene of sigmoid colon
Khirurgiya no.7:63-66 J1 '55. (MLRA8:12)

1. Iz kliniki gospiatal'noy khirurgii (dir.prof. I.B.Oleshkevich)
Vitebskogo meditsinskogo instituta i Vitebskogo oblastnogo
onkologicheskogo dispansera (glavnyy vrach V.M.Velichenko)
(COLON, dis.
gangrene, surg.,ileocoloplastic)
(COLON, neoplasms
surg. ileocoloplastic)

L 04944-67 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)
 ACC NR: AP6025407 SOURCE CODE: UR/0103/66/000/007/0020/0030

AUTHOR: Velichenko, V. V. (Moscow)

ORG: none

TITLE: Problems of optimal control for equations with discontinuous right members

SOURCE: Avtomatika i telemekhanika, no. 7, 1966, 20-30

TOPIC TAGS: optimal control, differential equation system, functional equation

ABSTRACT: An investigation is made of the optimization of a system of equations with discontinuous right members

$$\dot{x}(t) = f(x, u, t). \quad (1)$$

Here x is an n -dimensional vector and the control u is an r -dimensional vector. The vector function $f(x, u, t)$ is discontinuous during the transition of the trajectory of the system of Eq. (1) through a given surface

Card 1/2

UDC: 62-505

L 04944-67

ACC NR: AP6025407

$$\Omega_s(x, t) = 0 \quad (s = 1, 2, \dots, k)$$

(2)

within an $n + 1$ dimensional space $X \times t$. The paper develops a formula for the change of the functional defined along the trajectory of the system of Eq. (1) which permits a direct extension of the known methods for the solution of optimum control problems of continuous equations to the case of discontinuous right members. The paper covers the method for a small improvement of control, the necessary optimality conditions, and the sufficient conditions for the optimality of linear systems. All new results are illustrated by examples. Orig. art. has: 57 formulas.

SUB CODE: 09,12/ SUBM DATE: 09Dec65/ ORIG REF: 013

Card 2/2

feh

ACC NR: AP6025920

SOURCE CODE: UR/0208/66/006/004/0635/0647

AUTHOR: Velichenko, V. V. (Moscow)

ORG: none

TITLE: A numerical method for solving the problem of optimum control

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 6, no. 4, 635-637

TOPIC TAGS: optimal control, mathematic analysis, numeric method

ABSTRACT: This paper proposes a method of solving optimum control problems which makes it possible to derive a solution of the initial problem to a predicated degree of accuracy by solving the simplest minimization problems (with a single condition at the right terminus of the trajectory) for a sequence by a special transform of auxiliary functionals constructed. An analysis is made of a system of differential equations $x(t) = f(x, u, t)$, where x is an n -dimensional vector. The vector function $f(x, u, t)$ is assumed to be continuous with respect to all variables and to have partial derivatives of the first order and limited partial derivatives of the second order with respect to the components of vectors x and u , and the r -dimensional vector $u(t)$ (the control) at every moment of time t belongs to some closed limited region U . The algorithm for solving this problem starts from construction of functionals

$$\psi_s = [\phi[x(T), T] - \phi_s]^2 + \sum_{j=1}^m \mu_j M_j^2[x(T), T], \quad s = 1, 2, \dots (1.7)$$

Card 1/2

UDC: 519.3:51:62-50

ACC NR: AP6025920

where $\phi(x,t)$ is continuous; ϕ_s is a chosen series of numbers, $s = 1, 2, \dots$; $u_j \neq 0$, $j = 1, 2, \dots, m$; $M_j(x,t)$, $j = 0, 1, \dots, m$ is continuous; and T is the final moment in time. The paper deals further with methods of constructing the changed trajectory and refinements on these methods. Orig. art. has: 47 formulas.

SUB CODE: 12/ SUBM DATE: 29Oct65/ ORIG REF: 008

Card 2/2

KISSIN, Yu.V.; BELOYE, G.P.; YEREMINA, I.V.; VELICHENKOVA, Ye.A.; TSVEIKOVA,
V.I.; CHIRKOV, N.M.

Spectroscopic criterion of the isotacticity of polypropylene.

Vyskch.sosd. 5 no.7:1117 J1 '63.

(MIRA 16:9)

(Propylene—Spectra)

ACCESSION NR: AP4039644

S/0181/64/006/006/1622/1626

AUTHOR: Gen, M. Ya.; Velichenkova, Ye. A.; Yeremina, I. V.;
Ziskin, M. S.

TITLE: Formation and properties of Ag-Cu alloys in the finely
dispersed state

SOURCE: Fizika tverdogo tela, v. 6, no. 6, 1964, 1622-1626

TOPIC TAGS: aerosol silver copper system, silver copper alloy,
aerosol alloy preparation, aerosol alloy structure, aerosol alloy
lattice constant, aerosol alloy silver solubility, aerosol
alloy copper solubility

ABSTRACT: Ag-Cu solid solutions of constant or varying composition
were prepared in the form of aerosols by vapor deposition from
Ag-Cu melts on glass or thin collodion film substrates kept
at room temperature in helium or argon at atmospheric pressure. The
initial composition of the melts was varied from 0 to 100% of each
component; deposition time was 30 sec. The particles of the Ag-Cu

Card 1/3

ACCESSION NR: AP4039644

aerosols had a spherical form; the particle size, regardless of composition, varied from $1.3 \cdot 10^{-5}$ to $0.5 \cdot 10^{-5}$ cm, respectively for particles produced in argon and helium. The aerosols of pure Ag and Cu have the same lattice parameters as pure Ag and Cu in the usual state. However, while in Ag-Cu macroalloys the transition from the single-phase to the two-phase region is abrupt, the lattice constants change from 4.078 and 3.605 to 4.032 and 3.626 Å, and the solubility limits do not exceed 13.5 at% for Cu and 9 at% Ag; in an aerosol alloy, the transition from the single-phase to the two-phase region is gradual and the change in the lattice constants is appreciably greater: from 4.078 and 3.605 to 4.004 and 3.647 Å at a content of 33 at% Cu and 27 at% Ag in larger particles, and 37 at% Cu and 32 at% Ag in the case of finer particles, which is apparently the result of increased limits of solubility. Orig. art. has: 4 figures and 5 formulas.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR Moscow (Institute of Chemical Physics, AN SSSR)

Cord 2/3

ACCESSION NR: AP4039644

SUBMITTED: 28Nov63

DATE ACQ: 19Jun64

ENCL: 00

SUB CODE: MM

NO REF SOV: 007

OTHER: 003

Card 3/3

GEN, M.Ya.; VELICHENKOVA, Ye.A.; YEREMINA, I.V.; ZISKIN, M.S.

Conditions of formation and properties of an Ag-Cu alloy in a
finely divided state. Fiz. tver. tela 6 no.6:1622-1626 Je '64.
(MIRA 17:9)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.